

What is claimed is:

1. A cermet electrode comprising at least one of grains of a high-melting metal having a melting point not lower than 1,900°C and grains of an alloy containing said high-melting metal, said grains having an average diameter of not larger than 10 μm and being secured in position with zirconia doped to present the form of a cubic lattice by electrochemical vapor deposition.

2. A cermet electrode according to claim 1, in which said high-melting metal is at least one member selected from the group consisting of ruthenium, osmium, rhodium, iridium, molybdenum and tungsten.

3. A cermet electrode according to claim 1, in which said high-melting metal is ruthenium.

4. A cermet electrode according to any of claims 1 through 3, in which said zirconia has been doped with yttria.